

<b>NSLS TECHNICAL NOTE</b> BROOKHAVEN NATIONAL LABORATORY		NUMBER <b>534</b>
AUTHOR <b>Richard Michta</b>		DATE <b>7/18/05</b>
TITLE <b>Instructions for using the Userver ASCII-based Interface Layer</b>		

Connect to the server by using the node NSLSNT3 and the tcp port 4999.

The protocol bridge supports an ASCII-based carriage return terminated protocol that is listed below. All responses from the server are ASCII-based and also terminated by a carriage return.

#### Userver Command Set

Syntax:	Description:
devname[.mag]	read MAGNITUDE.
devname=value	set SETPOINT.
devname.set[=value]	read/set SETPOINT.
devname+=value	INCREMENT SETPOINT.
devname-=value	DECREMENT SETPOINT.
devname=on	set ON.
devname=off	set OFF.
devname=sb	set STANDBY.
devname=rst	set RESET.
devname=clr	set CLEAR.
devname=lk+	ENABLE LOCK.
devname=lk-	DISABLE LOCK.
devname=plk	PARTIAL LOCK.
devname=up	MARK UP.
devname=dn	MARK DOWN.
devname=err+	ENABLE ERRMSG.
devname=err-	DISABLE ERRMSG.
devname=mon+	ENABLE MONMSG.
devname=mon-	DISABLE MONMSG.
devname.mod[=value]	read/set MODE.
devname.st1	read STATUS byte 1.
devname.st2	read STATUS byte 2.
devname.st3	read STATUS byte 3.
devname.st4	read STATUS byte 4.
devname.st5	read STATUS byte 5.
devname.lim	read LIMITS (low and high).
devname.hlm[=value]	read/set HIGH LIMIT.
devname.llm[=value]	read/set LOW LIMIT.
devname.hal[=value]	read/set HIGH ALARM.
devname.lal[=value]	read/set LOW ALARM.
devname.hwn[=value]	read/set HIGH WARNING.
devname.lwn[=value]	read/set LOW WARNING.
devname.da1[=value(s)]	read/set DATA ARRAY1.
devname.da2[=value(s)]	read/set DATA ARRAY2.
devname.da3[=value(s)]	read/set DATA ARRAY3.
devname.da4[=value(s)]	read/set DATA ARRAY4.
devname.cal[=val1 val2]	read/set CALIBRATION.
#retry[=value]	read/set ucode retries.
#timeout[=value]	read/set ucode timeout.
#write[=0,1]	read/set ucode write mode (0=dis,1=ena).
#cal[=0,1]	read/set ucode calibration mode (0=raw,1=eng).
#protocol[=0,1]	read/set protocol mode (0=asc,1=bin).
#refresh	refresh DDR.
#help	displays a copy of the above command set.